

SCHOOL IMPROVEMENT PLAN  
John S. Battle High  
2014-2015

- A. *Work to improve one of the four core areas as outlined in Objective 2 under Curriculum & Instruction in the Comprehensive Plan.*

OBJECTIVE: John S. Battle High school will implement strategies to improve student learning and meet state requirements in mathematics, specifically the following strands within the standards of learning.

Algebra 1: Use the law of exponents to simplify an expression.  
Determine a representation of a function presented in another format.  
Represent a direct or inverse variation relationship with ordered pairs.

Algebra 2: Describe the end behavior of a quadratic function represented algebraically.  
Interpret, model, and/or solve a variation problem.

Strategies

- Teachers will use a pre-assessment at the beginning of each math course to collect data and target weaknesses in the targeted objectives of individual students and the class as a whole.
- Benchmark tests or Interactive Achievement tests will be given at least once each nine weeks and used to determine weaknesses in targeted objectives of individual students and the class as a whole. This data will be used to guide instruction.
- Teachers will use diagnostic, formative, and summative assessments throughout the course to determine strengths and weaknesses of students in targeted objectives and use the data to guide instruction.
- Teachers will follow the curriculum framework and testing blueprint provided by the state.
- Teachers will follow the pacing guide per course provided by the county.
- New Casio calculators will be used in each mathematics classroom. This calculator was chosen for its ease of use and special features that targets certain standards of learning. The older model will also be placed in the library for students to check out for use at home.
- Tutoring will be provided before and after school to any student needing extra help.
- Project graduation tutoring will be provided during school approximately two class periods per week for those students who have been recognized as needing extra help to master mathematics state standards.
- Teachers will utilize resources provided by the state including PowerPoints, test data, technology enhanced items, released practice questions, and the first full released test.
- Teachers will attend workshops pertaining to standards of learning, teaching new standards, increasing rigor, vertical alignment, and Bloom's Taxonomy.

- Teachers will contact parents concerning students who are struggling with specific topics.
- Inclusion classes are offered in mathematics. This allows for students to be pulled out of class by the inclusion teacher into a smaller group and receive more individualized help.
- Teachers meet monthly to discuss items concerning the mathematics department. This includes teachers sharing ideas, strategies, lessons, materials and resources that have been successful for them.
- Teachers will look at the targeted objectives within the standards of learning that are the weakest and evaluate their teaching methods and strategies previously used and make improvements.

#### Indicators

- Data collected from Pre-assessment test and lesson plans guided by this data.
- Data collected from each Benchmark test, Interactive Achievement, and lesson plans guided by this data.
- Data collected and displayed as student grades in PowerTeacher and lesson plans guided by this data.
- Each teacher keeps a binder containing the curriculum framework and testing blueprint in their classroom for reference and guidance. Lesson plans indicate the framework and testing blueprint are being utilized.
- Each teacher keeps a pacing guide in their classroom for reference and guidance. Lesson plans indicate the pacing guide is being utilized.
- Purchase orders for the new Casio calculator provided to all students and log of students checking out the older model of calculator from the library for use at home.
- Tutoring logs will be kept of student attendance.
- Project graduation will keep a log of student attendance and the material taught during each session.
- Teachers will use the state resources in their lesson plans to prepare students for state testing.
- Certificates of attendance to workshops pertaining to standards of learning, teaching new standards, increasing rigor, vertical alignment, use of new calculator, and Bloom's Taxonomy.
- Parent contact log.
- Student schedules and log of students being pulled out into a smaller group setting.
- Meeting agendas and summaries are submitted to the principal.
- Comparison of previous lesson plans and current lesson plans will demonstrate an evaluation and change of strategy/method on targeted objectives.

*B. Select one of the remaining five categories of the Comprehensive Plan and incorporate it into the School Improvement Plan.*

OBJECTIVE:

#### Strategies

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Indicators

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C. *Choose one goal based on providing professional development in your building.*

OBJECTIVE: Teachers at John S. Battle High School will participate in professional development activities in regard to Interactive Achievement throughout the 2014 – 2015 school year. Emphasis will be placed on utilizing IA to determine areas of need for remediation.

Strategies

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Indicators

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D. *Meet all local, state, regional, and federal accreditation standards.*